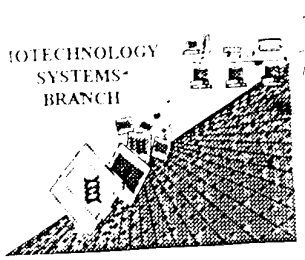
RAW SEQUENCE LISTING
ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/516,304

Source: 1630 August

Date Processed by STIC: 10/2/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE SEE BELOW

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/516,310A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2____Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3____Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4____Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5____Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6____PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7____Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8____Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9____Use of n's or Xaa's (NEW RULES)	Use of **n's** and/or **Xaa's** have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10____Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11____Use of <220>	Sequence(s) 2-16-11 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12____PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13____Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/516,310A

DATE: 10/02/2001
TIME: 12:44:26

Input Set : A:\22000.0021U2.txt
Output Set: N:\CRF3\10022001\I516310A.raw

Does Not Comply
Corrected Diskette Needed
1, 3-4

```
 3 <110> APPLICANT: Lin, Yao-Zhong
 4       Hawiger, Jack J.
 6 <120> TITLE OF INVENTION: A Novel Method for Importing
 7       Biologically Active Molecules into Cells
10 <130> FILE REFERENCE: 22000.0021U2
12 <140> CURRENT APPLICATION NUMBER: 09/516,310A
13 <141> CURRENT FILING DATE: 2000-03-01
15 <150> PRIOR APPLICATION NUMBER: 09/170,754
16 <151> PRIOR FILING DATE: 1998-10-13
18 <150> PRIOR APPLICATION NUMBER: 09/052,784
19 <151> PRIOR FILING DATE: 1998-03-31
21 <150> PRIOR APPLICATION NUMBER: 08/258,852
22 <151> PRIOR FILING DATE: 1994-06-13
24 <160> NUMBER OF SEQ ID NOS: 11
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 26
30 <212> TYPE: PRT
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <221> NAME/KEY: SITE
35 <222> LOCATION: (1)...(16)
36 <223> OTHER INFORMATION: note = Signal peptide amino acid sequence of K-FGF
38 <221> NAME/KEY: SITE
39 <222> LOCATION: (17)...(19)
40 <223> OTHER INFORMATION: note = Spacer region
42 <221> NAME/KEY: SITE
43 <222> LOCATION: (20)...(26)
44 <223> OTHER INFORMATION: note = Epitope tag
46 <400> SEQUENCE: 1
47 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
48  1               5                  10                  15
49 Ala Ala Ala Asp Gln Asn Gln Leu Met Pro
50             20                  25
52 <210> SEQ ID NO: 2
53 <211> LENGTH: 7
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial Sequence
W--> 57 <220> FEATURE:
W--> 57 <223> OTHER INFORMATION:
57 <400> SEQUENCE: 2
58 Asn Tyr Lys Lys Pro Lys Leu
59  1               5
61 <210> SEQ ID NO: 3
62 <211> LENGTH: 26
63 <212> TYPE: PRT
64 <213> ORGANISM: Artificial Sequence
```

FYI: Xaa can only represent a single amino acid

See item 11 on Error Summary Sheet

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/516,310A

DATE: 10/02/2001
TIME: 12:44:26

Input Set : A:\22000.0021U2.txt
Output Set: N:\CRF3\10022001\I516310A.raw

```
66 <220> FEATURE:
67 <221> NAME/KEY: SITE
68 <222> LOCATION: (1)...(16)
69 <223> OTHER INFORMATION: note = Signal peptide amino acid sequence of K-FGF
71 <221> NAME/KEY: SITE
72 <222> LOCATION: (17)...(19)
73 <223> OTHER INFORMATION: Spacer region
75 <221> NAME/KEY: SITE
76 <222> LOCATION: (20)...(26)
77 <223> OTHER INFORMATION: Nuclear localization sequence of aFGF
79 <400> SEQUENCE: 3
80 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
81  1               5                  10                  15
82 Ala Ala Ala Asn Tyr Lys Lys Pro Lys Leu
83             20                  25
85 <210> SEQ ID NO: 4
86 <211> LENGTH: 28
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <221> NAME/KEY: SITE
92 <222> LOCATION: (1)...(16)
93 <223> OTHER INFORMATION: note = Signal peptide amino acid sequence of K-FGF
95 <221> NAME/KEY: SITE
96 <222> LOCATION: (17)...(19)
97 <223> OTHER INFORMATION: note = Spacer region
99 <221> NAME/KEY: SITE
100 <222> LOCATION: (20)...(26)
101 <223> OTHER INFORMATION: note = Nuclear localization sequence of aFGF
103 <221> NAME/KEY: SITE
104 <222> LOCATION: (27)...(28)
105 <223> OTHER INFORMATION: note = Epitope tag
107 <400> SEQUENCE: 4
108 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
109  1               5                  10                  15
110 Ala Ala Ala Asn Tyr Lys Lys Pro Lys Leu Met Pro
111             20                  25
113 <210> SEQ ID NO: 5
114 <211> LENGTH: 16
115 <212> TYPE: PRT
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <221> NAME/KEY: SITE
120 <222> LOCATION: (1)...(16)
121 <223> OTHER INFORMATION: note = Signal peptide amino acid sequence of K-FGF
123 <400> SEQUENCE: 5
124 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
125  1               5                  10                  15
127 <210> SEQ ID NO: 6
```

Xaa can only represent a single amino acid

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/516,310A

DATE: 10/02/2001
TIME: 12:44:26

Input Set : A:\22000.0021U2.txt
Output Set: N:\CRF3\10022001\I516310A.raw

```
     128 <211> LENGTH: 41
     129 <212> TYPE: PRT
     130 <213> ORGANISM: Artificial Sequence
W--> 132 <220> FEATURE:
W--> 132 <223> OTHER INFORMATION:
     132 <400> SEQUENCE: 6
     133 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
     134  1               5                  10                  15
     135 Glu Ile Leu Leu Pro Asn Asn Tyr Asn Ala Tyr Glu Ser Tyr Lys Tyr
     136             20                  25                  30
     137 Pro Gly Met Phe Ile Ala Leu Ser Lys
     138         35                  40
     140 <210> SEQ ID NO: 7
     141 <211> LENGTH: 25
     142 <212> TYPE: PRT
     143 <213> ORGANISM: Artificial Sequence
W--> 145 <220> FEATURE:
W--> 145 <223> OTHER INFORMATION:
     145 <400> SEQUENCE: 7
     146 Glu Ile Leu Leu Pro Asn Asn Tyr Asn Ala Tyr Glu Ser Tyr Lys Tyr
     147  1               5                  10                  15
     148 Pro Gly Met Phe Ile Ala Leu Ser Lys
     149             20                  25
     151 <210> SEQ ID NO: 8
     152 <211> LENGTH: 26
     153 <212> TYPE: PRT
     154 <213> ORGANISM: Artificial Sequence
W--> 156 <220> FEATURE:
W--> 156 <223> OTHER INFORMATION:
     156 <400> SEQUENCE: 8
     157 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
     158  1               5                  10                  15
     159 Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu
     160             20                  25
     162 <210> SEQ ID NO: 9
     163 <211> LENGTH: 26
     164 <212> TYPE: PRT
     165 <213> ORGANISM: Artificial Sequence
W--> 167 <220> FEATURE:
W--> 167 <223> OTHER INFORMATION:
     167 <400> SEQUENCE: 9
     168 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
     169  1               5                  10                  15
     170 Val Asn Arg Lys Arg Asn Lys Leu Met Pro
     171             20                  25
     173 <210> SEQ ID NO: 10
     174 <211> LENGTH: 10
     175 <212> TYPE: PRT
     176 <213> ORGANISM: Artificial Sequence
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/516,310A

DATE: 10/02/2001
TIME: 12:44:26

Input Set : A:\22000.0021U2.txt
Output Set: N:\CRF3\10022001\I516310A.raw

W--> 178 <220> FEATURE:
W--> 178 <223> OTHER INFORMATION:
178 <400> SEQUENCE: 10
179 Val Asn Arg Lys Arg Asn Lys Leu Met Pro
180 1 5 10
182 <210> SEQ ID NO: 11
183 <211> LENGTH: 10
184 <212> TYPE: PRT
185 <213> ORGANISM: Artificial Sequence
W--> 187 <220> FEATURE:
W--> 187 <223> OTHER INFORMATION:
187 <400> SEQUENCE: 11
188 Ile Glu Glu Lys Arg Lys Arg Thr Tyr Glu
189 1 5 10

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/516,310A

DATE: 10/02/2001
TIME: 12:44:27

Input Set : A:\22000.0021U2.txt
Output Set: N:\CRF3\10022001\I516310A.raw

L:57 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:57 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:132 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:132 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:145 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:145 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:156 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:156 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:167 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:167 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:178 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:178 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:187 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:187 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: